

ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU -27 B.Sc.–V SEMESTER

SEMESTER EXAMINATION: OCTOBER 2023

**(Examination conducted in November /December 2023)**

ZO 5123 – Non Chordates and Economic Zoology

(For current batch students only)

**Time: 2 Hours Max Marks: 60**

**This paper contains TWO printed pages and FOUR parts**

**PART-A**

 **Answer the following**: **10 X 1 =10**

1. \_\_\_\_\_\_\_\_\_\_ is commonly called as sea mouse.
2. Glacial control theory is proposed by \_\_\_\_\_\_\_\_\_.
3. Turbellaria: Planaria **::** Cestoda:\_\_\_\_\_\_\_.
4. Classify the below animal to its respective class:



1. Mention any two poultry breeds.
2. The trochophore larva is associated with Annelida. **TRUE/FALSE**.
3. The endocrine hormone influencing metamorphosis in insects is \_\_\_\_\_\_\_.
4. *Nautilus* is an example for class \_\_\_\_\_\_\_\_\_*.*
5. Define moriculture.
6. What is Aquaponics?

 **PART B**

**Answer any FOUR of the following**: **4 X 5 = 20**

1. Draw a neat labelled diagram of the externals of Unio.
2. Describe the regeneration in Planaria with reference to child’s axial gradient theory.
3. Illustrate the structure of *Heteronereis*.
4. What are the class characteristics of Gastropoda and Bivalvia.
5. What are the symptoms and preventive measures for

 a) disease caused by *Plasmodium vivax*

 b) Dengue

1. Mention any 2 products of dairy industry and Poultry farming. Add notes on the challenges

faced by the dairy industry in Indian market.

 **PART C**

**Answer any THREE of the following: 3 X 10 =30**

1. Peripatus is called as the living fossil. Substantiate.
2. Illustrate and explain the digestive system of earthworm.
3. Why is it necessary to sanitize granaries? Add a note on rice weevil and pulse moth.
4. Describe the morphology of *Aurelia aurita*.
5. Explain the process of conjugation in Paramecium.